System Planning & Analysis Report

S-48

T. H. 169
T. H. 282 TO T. H. 21

S. P. 7008-22

MAY, 1971

PREPARED BY

OFFICE OF SYSTEM PLANNING

MINNESOTA

DEPARTMENT

OF HIGHWAYS

ADMIN 1000

STATE OF MINNESOTA

Office Memorandum

DEPARTMENT HIGHWAY - Statewide Planning -
Room 807 - Extension 3158

DATE: May 12, 1971

TO : Paul G. Velz
Road Design Engineer

FROM : Morris Gildemeister, Chief
Statewide Planning Section

SUBJECT: TH 169, TH 282 to TH 21
SP 7008-22
System Planning & Analysis Report S-48

The Statewide Planning Section transmits this report in response to D. W. Brown's November 17, 1970 request for the 1990 ADT, DHV and HCADT for the project location shown on the map on page 2.

The estimated 1990 ADT volumes are shown on the map on page 3.

For each segment numbered on the map on page 3, the following data are tabulated on page 4:

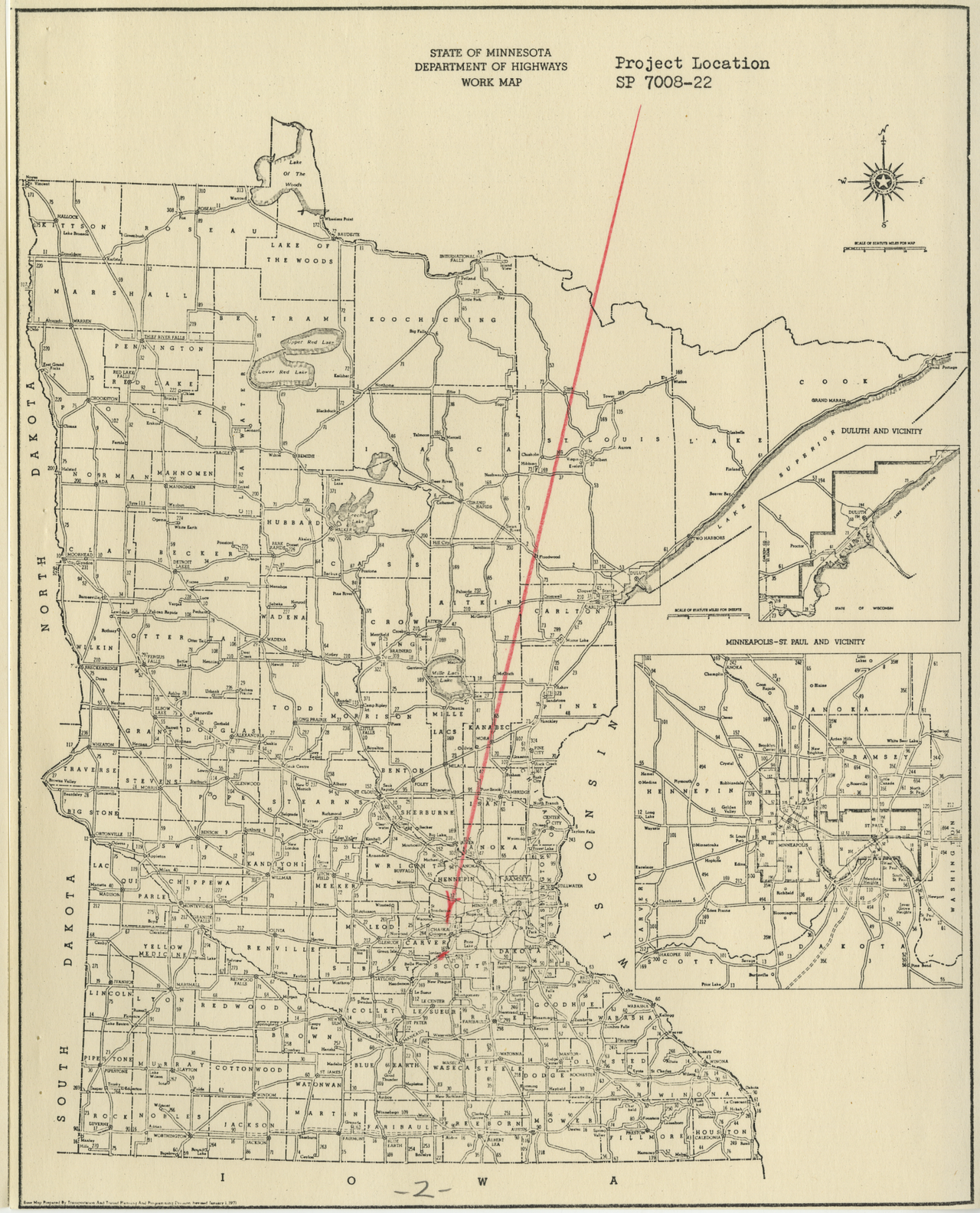
(a) Total ADT
(b) Vehicle Type Distribution
(c) Total HCADT
(d) Total DHV without Directional Distribution
(e) Directional Distribution of DHV

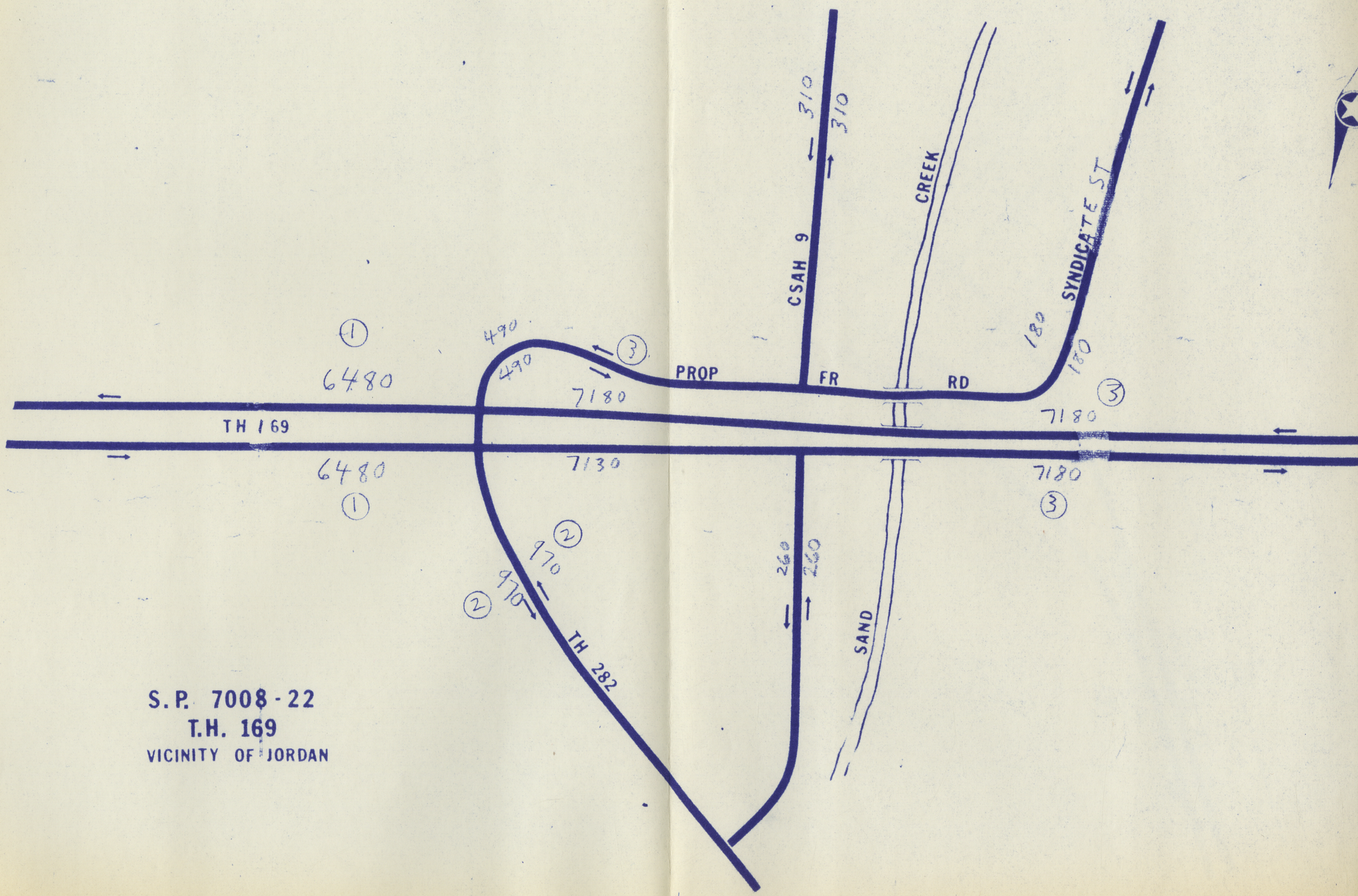
Segment 7, with a 1990 ADT of 9040, has the highest ADT on the project section of TH 169. This segment has a 1971 ADT of 5550 vehicles.

The basic data, method and assumptions used to prepare this report are presented on page 5.

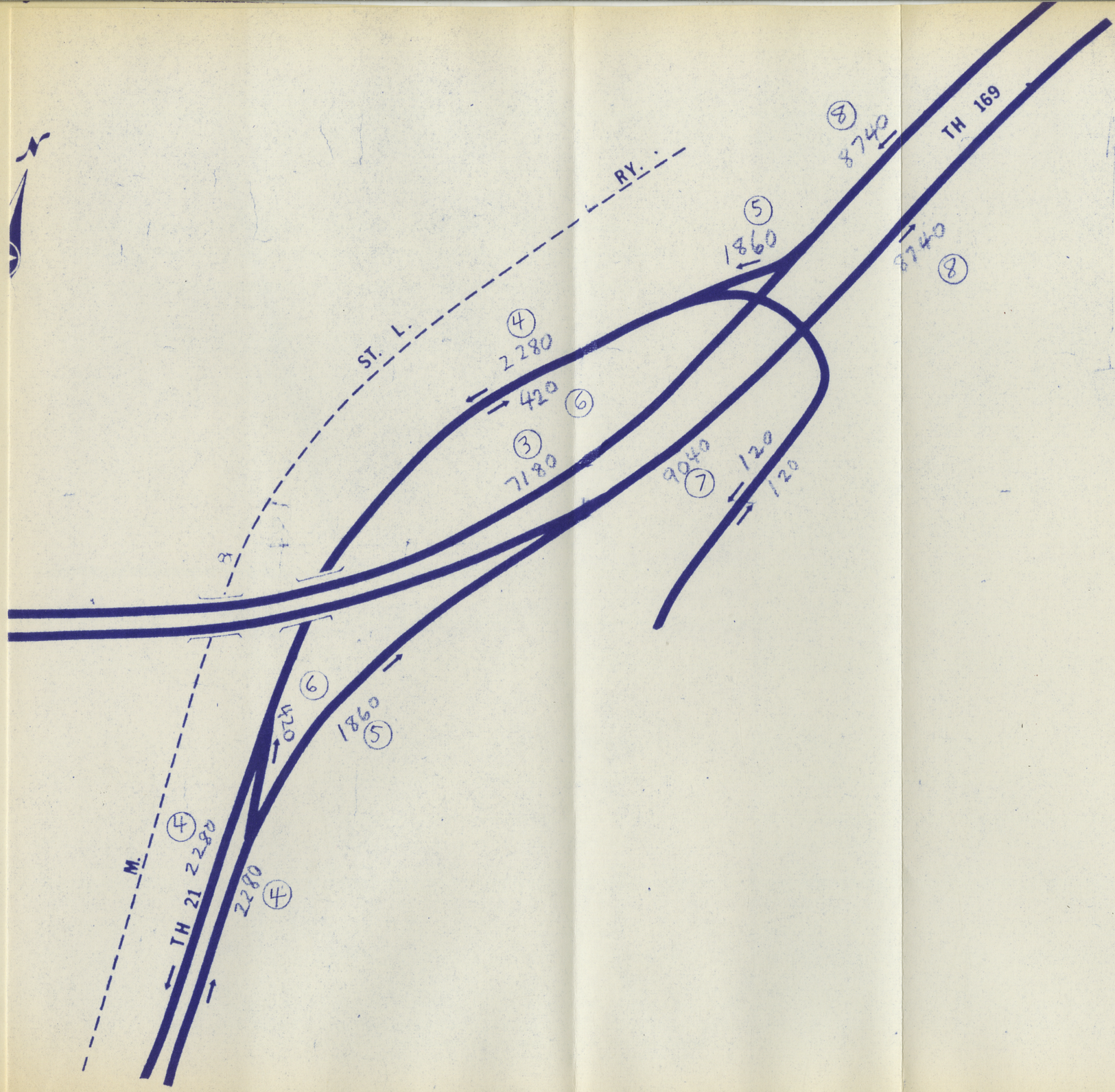
Morris Gildemeister

Morris Gildemeister, Chief
Statewide Planning Section





S.P. 7008-22
T.H. 169
VICINITY OF JORDAN



S-48
May, 1971

TH 169
SP 7008-22
TH 282 to TH 21

Legend
Segment Number . . . (8)
1990 One-Way ADT . 8740

12"X30

Form 2985 (9-63)

TRAFFIC ESTIMATE DATA

DESIGN YEAR 1990 PART 1 OF 1

FOR

T.H. 169 S.P. 7008-22 LENGTH - MILES

COUNTY Scott LOCATION TH 282 to TH 21

BASED ON

1990 ADT FROM TRAFFIC ANALYSIS UNIT

SHOWING

TOTAL ADT ON SEGMENTS 1 THROUGH 8 AS

DEFINED ON ATTACHED INDEX MAP

VEHICLE * TYPE	SEGMENT NUMBER										
	1	2	3	4	5	6	7	8			
0	5398	844	6006	1973	1602	371	7608	7341			
1	298	69	348	172	142	30	490	468			
2	65	13	74	31	25	6	99	95			
3	26	12	35	28	25	3	60	58			
4	123	5	127	12	11	1	138	138			
5	538	16	550	38	34	4	584	583			
6	32	11	40	26	21	5	61	57			
TOTAL ADT	6480	970	7180	2280	1860	420	9040	8740			
TOTAL H. COMM. ADT	1082	126	1174	307	258	49	1432	1399			
TOTAL DHV	985	144	991	342	279	63	1270	1220			
DIRECTIONAL DISTRIBUTION											

* VEHICLE TYPE CODE

0 = PASSENGER CARS AND 4 TIRE TRUCKS
1 = SINGLE UNIT-2 AXLE-6 TIRE TRUCKS
2 = SINGLE UNIT-3 AXLE TRUCKS
3 = TRACTOR-TRUCK OR SEMI-TRAILER- 3 AXLES
4 = TRACTOR-TRUCK OR SEMI-TRAILER - 4 AXLES
5 = TRACTOR-TRUCK OR SEMI-TRAILER - 5 AXLES
6 = BUSES AND TRUCKS WITH TRAILERS

Basic Data, Methods, and Assumptions

Basic data includes the following:

1) Past 17 years ADT for trunk highways at the city limits of Jordan.
2) Data from records of the continuously operated traffic recorder southwest of Jordan.
3) Population and annual travel per capita historical data.
4) 1968 and 1971 hourly traffic volume data.
5) Vehicle classification counts in the general area near the project location.

The data listed above was adjusted to 1971 ADT. Counts were adjusted to 24 hour data and then seasonally adjusted to 1971 ADT. These traffic volumes were then projected by least squares trend method to 1990 ADT.

The hourly records taken on this project location were related to the hourly records and ADT of the traffic recorder mentioned above to obtain DHV for the project. Vehicle classification counts were projected from 1971 to 1990 by statewide vehicle type trends.

The total DHV shown in the table on page 4 is applicable to either direction.